

Evaluating *BRCA* mutation risk predictive models in a Chinese cohort in Taiwan

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Supplementary Information

Table 1S. Number of individual gene mutation carriers in the entire cohort and the three clinical subgroups

Table 2S. *BRCA* mutation carrier rates according to mutation carrier probability categories predicted by the models

Table 1S. Number of individual gene mutation carriers in the entire cohort and the three clinical subgroups

Mutations detected, no (%)	All Participants	BC/OC(+)FH(+)	BC/OC(+)FH(-)	BC/OC(-)FH(+)
	N=647	n=241	n=262	n=144
<i>BRCA1</i> mutation	12 (1.9%)	8 (3.3%)	2 (0.8%)	2 (1.4%)
<i>BRCA2</i> mutation	36 (5.6%)	17 (7.1%)	15 (5.7%)	4 (2.8%)
Other HR gene mutations	31 (4.8%)	14 (5.8%)	10 (3.8%)	7 (4.9%)
<i>ATM</i>	9 (1.2%)	4 (1.7%)	1 (0.4%)	4 (2.8%)
<i>BARD1</i>	1 (0.2%)	1 (0.4%)	0 (0%)	0 (0%)
<i>BRIP1</i>	1 (0.2%)	1 (0.4%)	0 (0%)	0 (0%)
<i>PALB2</i>	10 (1.5%)	5 (2.1%)	3 (1.1%)	2 (1.8%)
<i>RAD50</i>	1 (0.2%)	1 (0.4%)	0 (0%)	0 (0%)
<i>RAD51C</i>	3 (0.5%)	0 (0%)	2 (0.8%)	1 (0.7%)
<i>RAD51D</i>	6 (0.9%)	2 (0.8%)	4 (1.5%)	0 (%)

Table 2S. *BRCA* mutation carrier rates according to mutation carrier probability categories predicted by the models

	Category of predicted <i>BRCA1/2</i> mutation carrier probability (%)					
	<10%	10-20%	20-40%	40-60%	60-80%	>80%
BOADICEA						
<i>BRCA1/2</i>	26/583 (4.5%)	6/29 (20.7%)	6/19 (31.6%)	4/7 (57.1%)	1/3 (33.3%)	5/6 (83.3%)
<i>BRCA1</i>	2/607 (0.3%)	0/15 (0.0%)	5/16 (31.3%)	0/2 (0.0%)	1/3(33.3%)	4/4 (100.0%)
<i>BRCA2</i>	33/628 (5.3%)	1/13 (7.7%)	0/3 (0.0%)	2/3 (66.7%)	0/0 (N/A)	0/0 (N/A)
BRCAPRO						
<i>BRCA1/2</i>	14/370 (3.8%)	5/104 (4.8%)	5/81 (6.2%)	9/37 (24.3%)	5/32 (15.6%)	10/23 (43.5%)
<i>BRCA1</i>	1/477 (0.2%)	1/84 (1.2%)	4/51 (7.8%)	0/19 (0.0%)	2/10 (20.0%)	4/6 (66.7%)
<i>BRCA2</i>	19/494 (3.8%)	7/77 (9.1%)	8/62 (12.9%)	1/12 (8.3%)	1/2 (50%)	0/0 (N/A)
Myriad						
<i>BRCA1/2</i>	25/526 (4.8%)	12/86 (14.0%)	9/33 (27.3%)	2/2 (100.0%)	0/0 (N/A)	0/0 (N/A)
Penn II						
<i>BRCA1/2</i>	9/239 (3.8%)	27/345 (7.8%)	6/53 (11.3%)	2/4 (50.0%)	0/2 (0.0%)	4/4 (100.0%)
<i>BRCA1</i>	4/553 (0.7%)	2/75 (2.7%)	2/11 (18.2%)	0/4 (0.0%)	0/0 (N/A)	4/4 (100.0%)
<i>BRCA2</i>	31/611 (5.1%)	4/32 (12.5%)	1/4 (25.0%)	0/0 (N/A)	0/0 (N/A)	0/0 (N/A)

N/A: not applicable